WARNING: READ AND UNDERSTAND THIS MANUAL IN ITS ENTIRETY BEFORE USE

XM42™

USER MANUAL

Updated Nov 3, 2015

For video instructions, visit: https://youtu.be/JeeLGgrPV-s

Required:

- standard foodservice 8-oz (227g) butane fuel canister
- fuel (see page 4 for approved fuels)

SPECIAL THANKS TO OUR SUPPORTERS:

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If you have a question or experience a problem with your XM42, contact us at support@xm42.com.

THE ION PRODUCTIONS TEAM

IMPORTANT SAFETY WARNINGS AND INSTRUCTIONS

When the XM42 is turned on and the trigger is pressed, the XM42 sends out a stream of fuel that's ignited. The stream may extend beyond 25 feet. The XM42 is intended for proper use by legally-competent persons over the age of 18. The Ion Productions Team, LLC and its members, managers, agents, and representatives shall not be liable for any damages that result from improper or unauthorized use.

TO REDUCE RISK OF INJURY:

- Read all instructions before operating product. Failure to follow all instructions listed below may result in burns, unintentional fires and/or serious injury or death. Save these instructions and review frequently before use and when instructing others.
- KEEP OUT OF REACH OF CHILDREN
- Inspect for leaks before operation. Check all visible fittings and ensure there is no fuel leaking anywhere on or inside the device. If you suspect or notice any leakage (through sight, smell, or otherwise), discontinue use immediately and contact **support@xm42.com** for technical support.
- Never aim in any unsafe direction.
- Nozzle area becomes hot and aflame during use. DO NOT TOUCH NOZZLE AREA.
- Pilot torch becomes hot and aflame during use. DO NOT TOUCH PILOT TORCH BURNER TUBE.
- Do not handle or untwist/remove butane canister while any flame is present.
- Keep all parts of body as far away as possible from nozzle during use.
- Do not aim towards anything you do not intend to ignite.
- Do not refill fuel tank while pilot flame is ignited.
- Do not use in windy conditions. The fuel stream and droplets of fuel can travel toward the operator or other unintended areas.
- Do not drop or impact in any way. If the XM42 is dropped or dented, it may not function properly. Contact the manufacturer for repairs and do not attempt to use.
- Do not expose to or use in temperatures higher than 110F or lower than 0F.
- Fuel has the ability to drip from the nozzle of the device at any time. Always be sure the XM42 is directed safely away from people and flammable surfaces, and that all parts of the operator's body are as far away from the nozzle as possible. Never aim XM42 higher than 45 degrees: risk of fuel drip onto operator.
- When the pilot torch is lighted or the nozzle area is aflame, do not point the XM42 nozzle towards the operator's feet; fuel can drip at any time.
- Portions of the XM42 may become very hot to the touch during use. Do not touch any portion of the nozzle while the XM42 is lit or within 20 minutes after extinguishing.
- Ensure pilot torch gas valve is fully closed after use and XM42 power button is off.
- Use in upright position only.
- DO NOT DISASSEMBLE IN ANY WAY.
- **BE SMART. BE SAFE.**

LITHIUM BATTERY WARNINGS:

- CHECK VOLTAGE BEFORE AND AFTER EVERY USE.
- Do not allow overall battery pack voltage to drop below 10.0 volts, nor any individual cell to drop below 3.3 volts.
- Do not charge with any charger other than the one provided.
- Lithium polymer batteries are volatile. Failure to read and follow the below instructions may result in fire, personal injury and damage to property if charged or used improperly.
- Li-Polymer battery packs may explode and cause fire if misused or defective.
- DO NOT PUNCTURE THE BATTERY , DO NOT SHORT CIRCUIT THE BATTERY, DO NOT INCINERATE THE BATTERY
- DO NOT EXPOSE TO WATER OR EXCESSIVE MOISTURE OR ANY LIQUID
- When charging the battery, place XM42 on a fire proof surface. Do not leave unit and charger on wood/carpet or other flammable materials and unattended.
- Keep away from children.
- If you notice any damaged or frayed wiring, discontinue use immediately, place in a safe area, and contact manufacturer.
- Use only a balance charger designed for lithium polymer batteries in a 3S (3-cell) configuration such as the charger provided. The purpose is to keep each battery pack balanced.
- Never make a wrong polarity connection when charging and discharging battery packs.
- Always double check polarity of battery's connector to make sure connectors mate properly.
- Replace battery with a new one at least every 3 years.
- NEVER leave the XM42 where it is subjected to extremes in temperatures. This includes low levels as well as high.
- DO NOT leave unit in direct sunlight.
- There are fire risks when batteries are overcharged or short circuited, or if they have become submerged in water (even if they have been dried out) or if their cases have become damaged.
- Only charge your battery for the recommended time. Remove from the charging source as soon as the indicator shows that charging is complete.
- NEVER leave the device charging unattended.

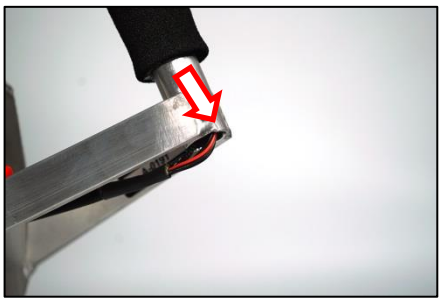
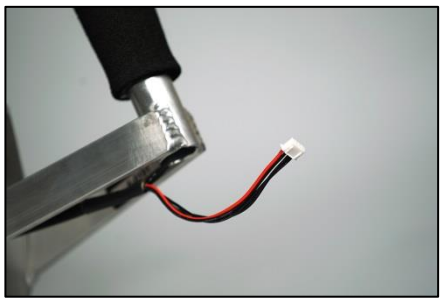
Transportation, shipping, and/or use of the XM42 may be regulated by federal, state, and/or local law. Verify applicable laws before using, transporting, or shipping. The Ion Productions Team, LLC and its members, managers, agents, and representatives shall not be liable for any special or consequential damages that result from the use of the products offered, even if The Ion Productions Team, LLC has been advised of the possibility of such damages. Applicable law may not allow the limitation or exclusion of liability or incidental or consequential damages.

DISCLAIMER:

Although the contents of this manual are believed to be accurate, The Ion Productions Team, LLC does not assume responsibility as to the accuracy, correctness, completeness, reliability and up-to-dateness of information made available through the manual. The contents of the manual are provided "as is" and without any expressed or implied warranties of any kind. The Ion Productions Team, LLC disclaims liability for any damages that arise as a result of the direct or indirect use of its manual and/or websites. The Ion Productions Team, LLC reserves the right to modify, amend, delete, suspend or discontinue its manuals and/or websites, which it controls, without prior notice.

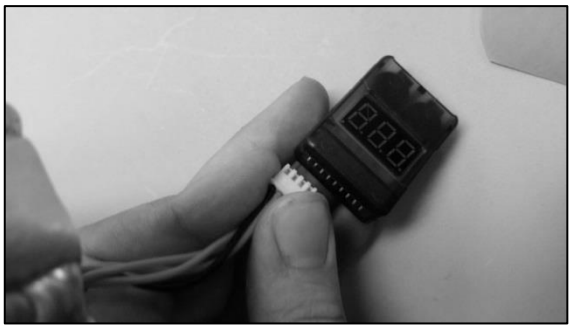
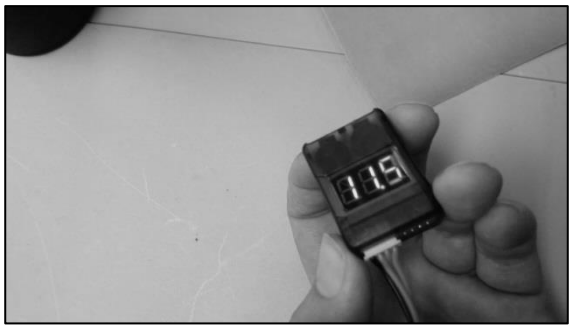
INSTRUCTIONS FOR USE

1. **Charge battery before use.** Charging cable is tucked into rear handle. Gently pull out to reveal connector. ENSURE POWER BUTTON IS OFF ON XM42.

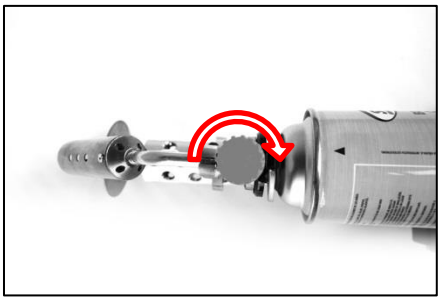



2. **Plug the charger in** to the wall outlet, and the XM42's connector into the leftmost port on the charger. The LEDs will glow constant red during charging. When all LEDs turn green, the battery is fully charged. Disconnect cable, unplug the charger from the wall, and tuck the charging cable back into the handle.

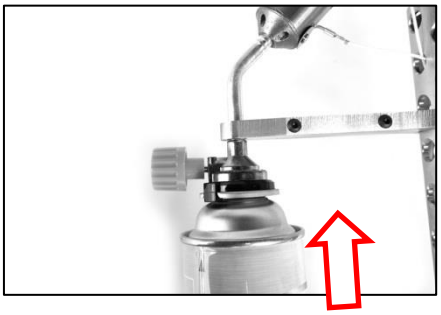
3. Before each use, **check voltage** using supplied voltage tester. Insert the charge cable connector into the tester as shown, it will beep, and display the overall voltage, and then tell you individual cell voltages. Voltage should be 12.6 when fully charged. **DO NOT ALLOW TO DROP BELOW 10.0 VOLTS.**

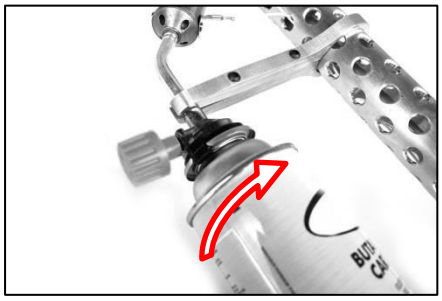



4. **Ensure** the pilot torch gas valve is closed (turn clockwise).



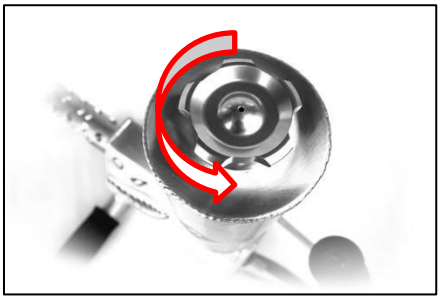
5. **Install a high quality 8-oz butane canister** by gently pressing the canister into the torch supply connection and rotating the canister clockwise until it stops.



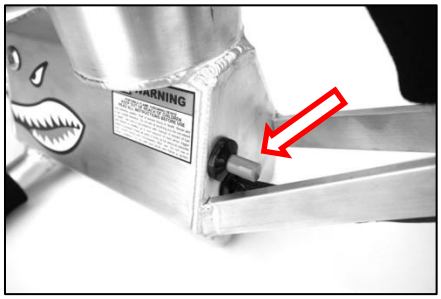


6. **Remove the XM42 fuel tank cap** by turning it counterclockwise and pour fuel into tank until full, taking care not to spill any onto the product exterior. APPROVED FUELS: Gasoline (unleaded), gasoline-diesel mixture, or alcohol fuel. Use only approved fuels for longevity and warranty. The XM42 uses aluminum/stainless steel/brass and fluoroelastomer internals. Unapproved fuels have not been tested and usage is at your own risk.

DO NOT OVER TIGHTEN!

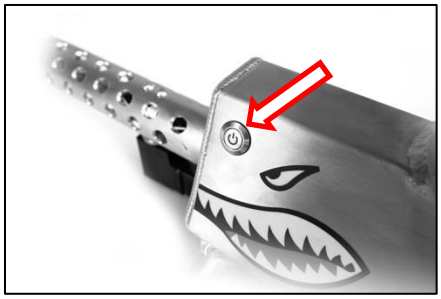


7. **Reinstall fuel tank cap** by turning it clockwise until hand tight. **Do not over tighten!** It's not under pressure, just want the o-ring to seal for spills.
8. **Move** to a safe outdoor area free from objects that could be inadvertently ignited.
9. **Open the pilot torch gas valve** (counterclockwise) until you hear a hiss due to gas flow, and push the red igniter button on the rear of the XM42 to generate a spark inside the pilot torch to ignite the flame. (If it does not ignite, you may need to adjust the gas flow valve and try again.)

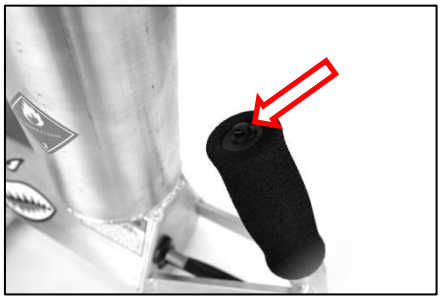


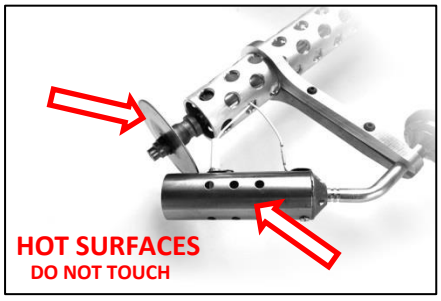
10. Once the pilot torch has a flame, **adjust the valve** to the desired size (recommend against excessive flame due to fuel consumption and inefficiency)

11. **Push the latching power button** on the side of the XM42 and it should illuminate to indicate the device is ready to operate.



12. **Aim the product in a safe direction** and press the black momentary button on the rear handle to emit fuel and subsequently a flaming stream up to and beyond 25 feet in distance. Stop use at first sign of low fuel (sputtering, etc.) Do not run unit when fuel tank is empty. Refill before continuing.





13. When you are finished using the XM42, **turn off the pilot torch** by turning the gas valve clockwise until fully closed. Blow out the remaining flame at the end of the XM42 or wait until the remaining fuel inside the plumbing burns off.
14. **Turn off the illuminated power button** by pressing it again. Ensure the switch is off when not in use to prevent any inadvertent fuel emission.

TO PREVENT MOISTURE FROM ACCUMULATING AND DAMAGING THE FUEL PUMP

DO ONE OF THE FOLLOWING:

- **KEEP YOUR XM42 FILLED WITH FUEL.**
- **USE GASOLINE-DIESEL MIXTURE (ROUGHLY 30% DIESEL) BEFORE STORAGE.**
- **USE CHOICE OF FUEL ALONG WITH A SMALL AMOUNT OF MOTOR OIL (ABOUT 50:1 RATIO OF FUEL:OIL) BEFORE STORAGE.**

MAINTENANCE/REPAIR

The XM42 is designed to generally be maintenance free. All components are constructed for industrial use. The intermittent operation seen by the XM42 should not degrade any component. Nevertheless, failures can occur in any mechanical device. The internals utilize hard plumbing with high quality thread sealant, along with a short fluoroelastomer hose. You must inspect for leakage before every use.

General maintenance:

- Keep fuel tank cap o-ring lubricated with a very small amount of automotive engine oil (SAE 30 or similar) to ensure smooth seating of the fuel cap.
- If the fuel tank cap seems gritty in its installation/removal, apply a small amount of oil to the threads and work the cap back and forth some to help.
- Although lithium polymer batteries are designed to be safe as long as there is no physical damage or overcharging done to them, we like to err on the safe side and recommend battery replacement every 3 years with a quality 2200mAh 3S 12.6 volt XT60 connector lithium-polymer battery. We offer free battery replacement for only the cost of shipping. For safety/liability reasons, we do not encourage the user to perform their own service.
- The main goal in maintenance is to prevent moisture from accumulating and damaging the fuel pump. It likes to stay lubricated and water-free. For long-term storage, we advise operating the XM42 with a gasoline or gasoline-diesel mixture along with a small amount of motor oil, to ensure a coating of oil on any corrosion-prone pump components.
- For repairs, battery replacement, or other services, contact us at **support@xm42.com**

ABOUT

Founded in 2004, and officially registered in 2015, The Ion Productions Team is a small company located near Detroit, Michigan that focuses on bringing exciting and unique products to the world. We are dedicated to providing the highest quality products for our customers. Between high grade materials, technical expertise, and pride in craftsmanship, we are confident in producing the most efficient, reliable, and safe products possible.

Thank you for your purchase, we hope you enjoy owning your own flamethrower!

Contact us if you have any questions

support@xm42.com

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